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Challenges and Opportunities for Steel Scrap Utilisation in the UK

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Abstract

UK generates around 11.0 Mt steel scrap per year with 80% being exported, while only 22% of UK crude steel (~7.3 Mtpa) is produced by scrap-based EAF route. Increasing the scrap utilisation in the UK steel industry could be an enabler for realising a circular steel economy and achieving net zero emissions. This talk will first identify the challenges for increasing the scrap utilisation in the UK such as steel recycling capacity, scrap quality, and technical barriers, and then explore the opportunities including UK steel demand, carbon emission taxation, circular supply chain, and technology development for increasing scrap utilisation.